Greatest Needs Analysis -**Ambulance Station**

North Dakota Association of Oil & Gas Producing Counties



Mike Schnetzer, Senior GIS Analyst

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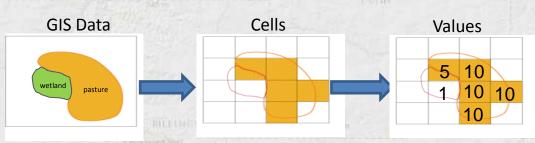


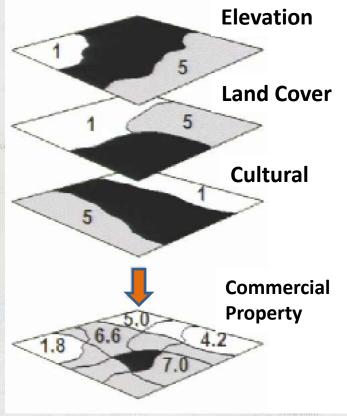


Suitability Analysis

Cell-Based GIS Modeling

- **Identify & map significant factors** of influence
- Reclassify the value of each factor 2.
- Weight the importance of each layer 3.
- Add the layers together 4.
- **Analyze** the results





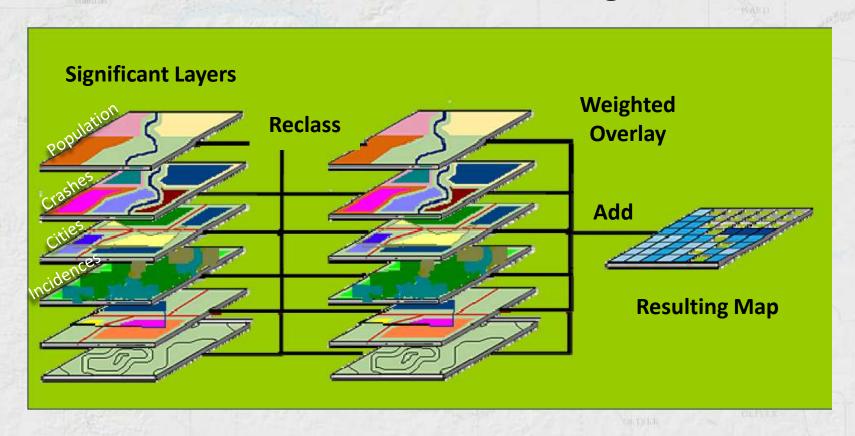






Suitability Analysis

Cell-based GIS Modeling

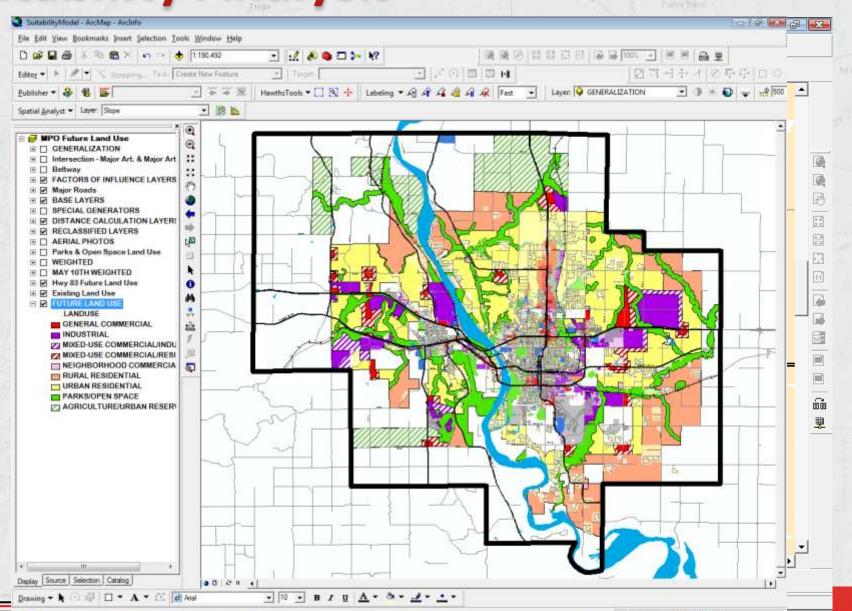






Suitability Analysis

from Base











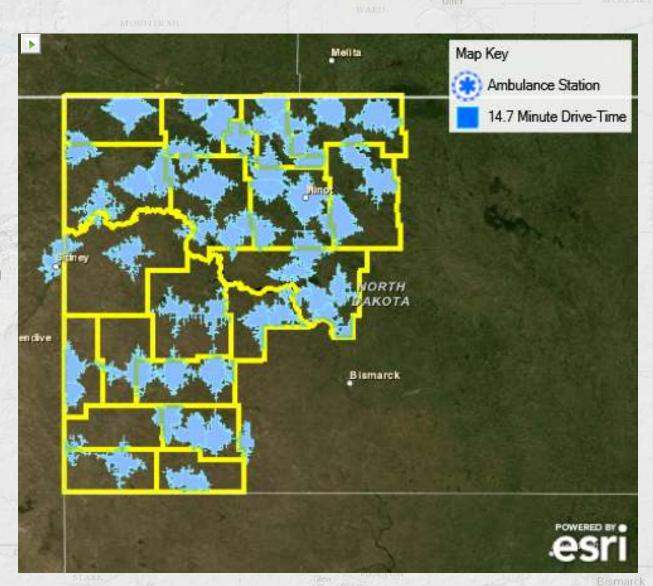


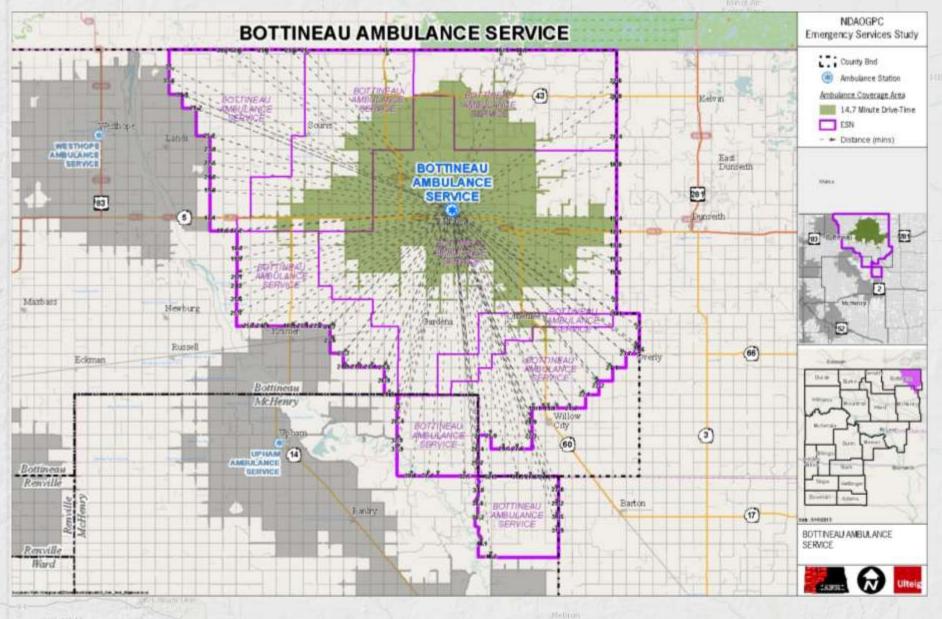




Factors of Influence

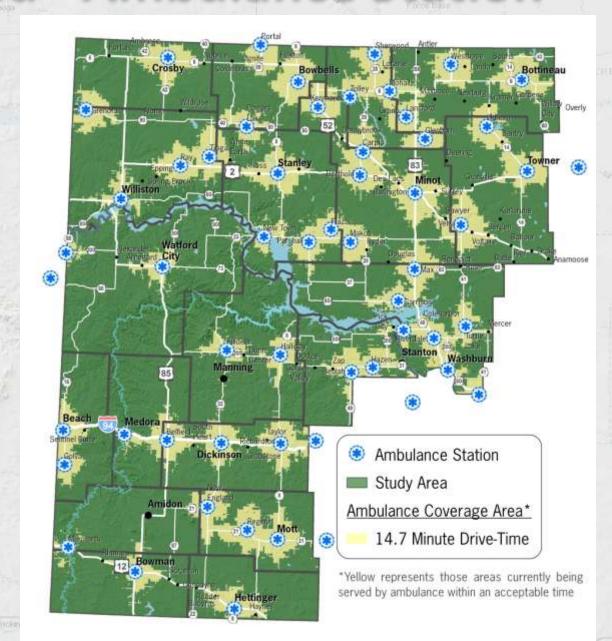
- 1. Study Area
- 2. Population
- 3. Proximity to Cities
- 4. DOT Crash Location
- 5. Ambulance Runs



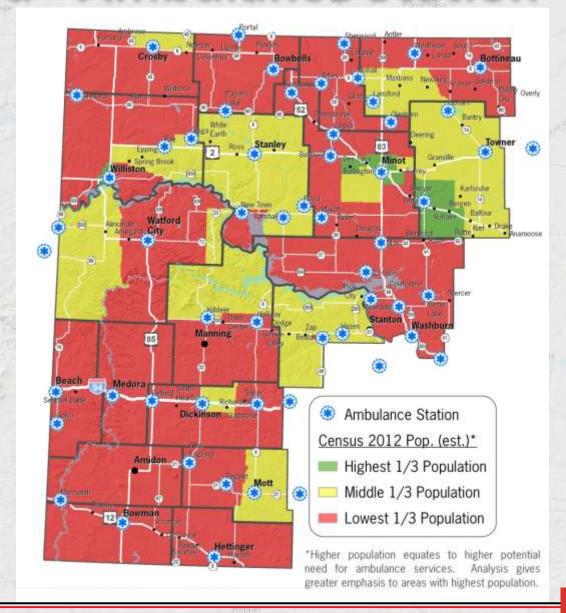


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Analysis – Study Area



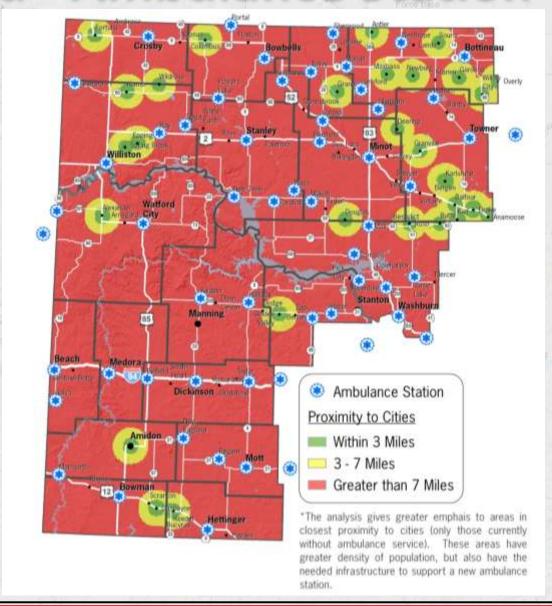
Analysis - Population







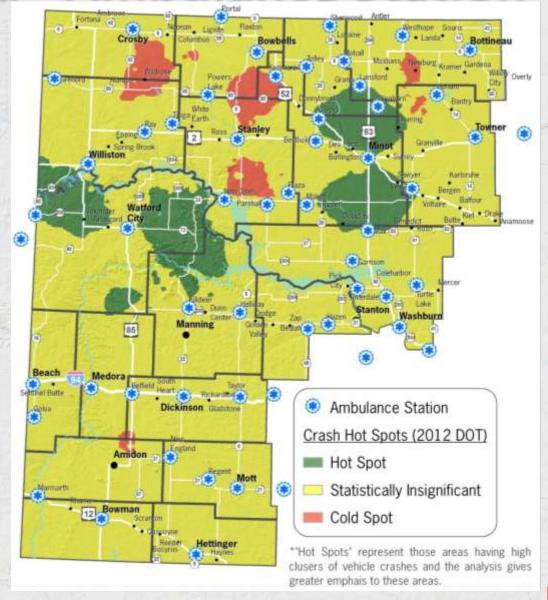
Analysis –
Proximity to
Cities







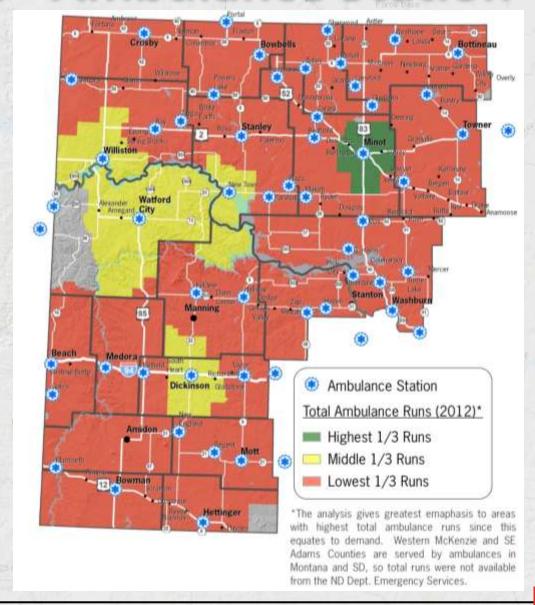
Analysis – NDDOT Crash Locations







Analysis – Ambulance Runs





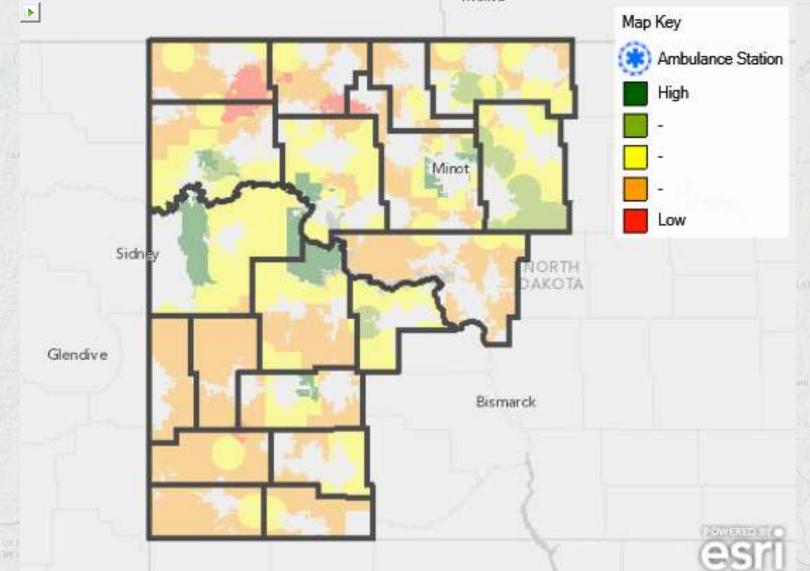


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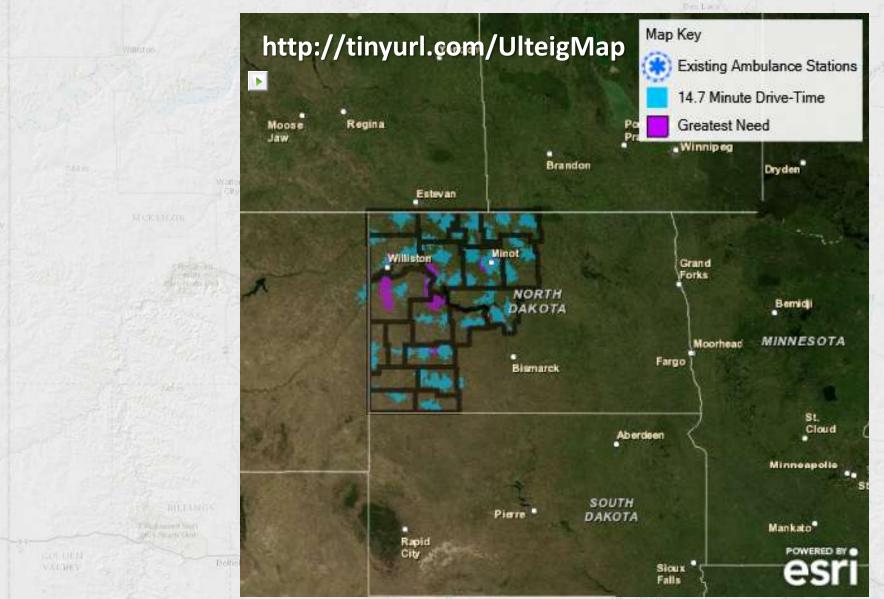
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Results – Suitability Ranking



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Results - Greatest Need



Next Steps...

Future Analysis

- 1. Calculate 14.7 Drive Times for Cities in Greatest Need Areas
- 2. "Ground Truthing"
- 3. Location-Allocation Analysis (Can Resources be shifted around?)





Who Has the First Question

http://tinyurl.com/UlteigMap

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